

Project/Site: CHPE	City/County: Slingerlands / Schenectady Sampling Date: 11/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CS-13
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression L	.ocal relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42-37-18.46	N Long: <u>73-54-28.68</u> W Datum: <u>WGS 84</u>
Soil Map Unit Name: RhA - Rhinebeck silty clay loam	NWI classification: PFO1
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly of	disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally prof	olematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present?   Yes X   No	If yes, optional Wetland Site ID: Near Flag CS-13
Remarks: (Explain alternative procedures here or in a separate repor Palustrine Forested Wetland. Red Maple-Hardwood Swamp.	L.)
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)

, ,			
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	oots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soil	s (C6)	X Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7	) Other (Explain in Remarks)		Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B	8)		X FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes X	No Depth (inches): 0	Wetland	d Hydrology Present? Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ections), if a	vailable:
Remarks:			

Sampling Point: WET CS-13

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Acer rubrum	50	Yes	FAC	Number of Dominant Species
2. Quercus bicolor	25	Yes	FACW	That Are OBL, FACW, or FAC: 7 (A)
3. Betula populifolia	15	No	FAC	Total Number of Dominant
4. Populus deltoides	5	No	FAC	Species Across All Strata: 8 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 87.5% (A/B)
7				Prevalence Index worksheet:
	95	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)			OBL species x 1 =
1. Ilex verticillata	10	Yes	FACW	FACW species 100 x 2 = 200
2. Quercus bicolor	5	Yes	FACW	FAC species 80 x 3 = 240
3. Ulmus americana	5	Yes	FACW	FACU species x 4 = 80
4. Lonicera morrowii	5	Yes	FACU	UPL species 0 x 5 = 0
5. Acer rubrum	5	Yes	FAC	Column Totals: 200 (A) 520 (B)
6.				Prevalence Index = B/A = 2.60
7.				Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	45	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^1$
2. Solidago gigantea	10	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lonicera morrowii		No	FACU	data in Remarks or on a separate sheet)
4. Rosa multiflora	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Cornus racemosa	5	No	FAC	
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
·	- <u> </u>	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30'	) <u> </u>			
1.	,			Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
υ.				Vegetation Present? Yes X No
1				Present? Yes X No
4.		=Total Cover		

## SOIL

Profile Desc	ription: (Describe	to the de	pth needed to docu	ument t	he indica	ator or c	onfirm the absence o	of indicators.)	
Depth	Matrix			x Featu					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-10	10YR 2/1	90	10YR 4/2	10	<u> </u>		Loamy/Clayey	Faint redox concentrations	
10-16	2.5Y 3/1	75	10YR 2/1	5	<u> </u>	M	Mucky Loam/Clay	Faint redox concentrations	
			10YR 5/6	20	<u> </u>			Prominent redox concentrations	
	· · · · · · · · · · · · · · · · · · ·	letion, RI	/I=Reduced Matrix, N	/IS=Mas	ked Sand	Grains		PL=Pore Lining, M=Matrix.	
Hydric Soil								or Problematic Hydric Soils <sup>3</sup> :	
Histosol	. ,		Polyvalue Belo		ce (S8) (	LRR R,		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
Histic Ep	oipedon (A2)		MLRA 149B	)			Coast P	Prairie Redox (A16) ( <b>LRR K, L, R</b> )	
Black Hi			Thin Dark Surf	-			149B)5 cm Mi	ucky Peat or Peat (S3) (LRR K, L, R)	
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	611) ( <b>LRI</b>	R K, L)	Polyvalı	ue Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	 Thin Da	rk Surface (S9) ( <b>LRR K, L</b> )	
	Below Dark Surface	e (A11)	Loamy Gleyed					nganese Masses (F12) (LRR K, L, R)	
	ark Surface (A12)	- ()	X Depleted Matri		,				
			Redox Dark Su		-e)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
	lucky Mineral (S1)			•	•		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
· ·	lleyed Matrix (S4)		Depleted Dark					rent Material (F21)	
	edox (S5)		Redox Depress		8)			allow Dark Surface (F22)	
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	Explain in Remarks)	
Dark Su	rface (S7)								
			vetland hydrology mu	ust be p	resent, u	nless dis	turbed or problematic.		
Type:	Layer (if observed):								
Depth (ir	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No	
Remarks:									



Wetland CS at flag CS-13 - View facing northeast.



Wetland CS-13 - Soils

Phase 2

## SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

Project/Site: CHPE			City/County: Slingerl	ands / Schenectady	Sampling Date: 11/12/21		
Applicant/Owner: TDI				State: NY	Sampling Point: UPL CS-13		
Investigator(s): C. Scrivner, J. Gre	aves		Section, Tov	vnship, Range:			
Landform (hillside, terrace, etc.):	Hillslope	Local r	elief (concave, conve	x, none): Concave	Slope %: 2		
Subregion (LRR or MLRA): LRR	R Lat:	42-37-18.08N	Long:	73-54-29.80W	Datum: WGS 84		
Soil Map Unit Name: RhA - Rhine	beck silty clay loam			NWI classification:	NA		
Are climatic / hydrologic conditions	on the site typical for t	this time of year?	Yes X	No (If no,	explain in Remarks.)		
Are Vegetation, Soil	, or Hydrology	significantly disturt	bed? Are "Norm	nal Circumstances" pres	sent? Yes X No		
Are Vegetation, Soil	, or Hydrology	naturally problema	tic? (If needed	l, explain any answers i	n Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present?	Yes	No X	ls the Sampled Ar	ea			
Hydric Soil Present?	Yes	No X	within a Wetland?	Yes	NoX		
Wetland Hydrology Present?	Yes	No X	If yes, optional We	tland Site ID:			

Remarks: (Explain alternative procedures here or in a separate report.) Railroad embankment

Wetland Hydrology Indicators:			Secondary Indicators (min	imum of two required)
Primary Indicators (minimum of one is requir	Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B1	0)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16	)
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Ta	ble (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Re	oots (C3)	Saturation Visible on A	Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed P	lants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soil	s (C6)	Geomorphic Position (	(D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7	) Other (Explain in Remarks)		Microtopographic Relie	ef (D4)
Sparsely Vegetated Concave Surface (E	38)		FAC-Neutral Test (D5)	)
Field Observations:				
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes	No X Depth (inches):			
Saturation Present? Yes	No X Depth (inches):	Wetlan	d Hydrology Present?	Yes No X
Saturation Present? Yes (includes capillary fringe)	No X Depth (inches):	Wetlan	d Hydrology Present?	Yes <u>No X</u>
				Yes <u>No X</u>
(includes capillary fringe)				Yes <u>No X</u>
(includes capillary fringe)				Yes <u>No X</u>
(includes capillary fringe)				Yes <u>No X</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				Yes <u>No X</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				Yes <u>No X</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				Yes <u>No X</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				Yes <u>No X</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				Yes <u>No X</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				Yes <u>No X</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				Yes <u>No X</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				Yes <u>No X</u>

Sampling Point: UPL CS-13

<u>Tree Stratum</u> (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus strobus	10	Yes	FACU	Number of Deminent Species
2. Rhamnus cathartica	5	Yes	FAC	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:3(A)
3.			UPL	
1				Total Number of Dominant Species Across All Strata: 8 (B)
5.	_			
3				Percent of Dominant Species That Are OBL, FACW, or FAC: 37.5% (A/I
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)			$\overline{\text{OBL species}}  0 \qquad \overline{\text{x 1} = 0}$
1. Cornus amomum	- 5	Yes	FACW	FACW species 5 $x 2 = 10$
2. Lonicera morrowii	5	Yes	FACU	FAC species 13 x 3 = 39
3. Rubus allegheniensis	2	No	FACU	FACU species 29 x 4 = 116
4.				UPL species 12 x 5 = 60
5.				Column Totals: 59 (A) 225 (I
6.				Prevalence Index = B/A = 3.81
7.				Hydrophytic Vegetation Indicators:
	12	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Solidago rugosa	8	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Rubus allegheniensis	5	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide support
3. Lonicera morrowii	5	Yes	FACU	data in Remarks or on a separate sheet)
4. Solidago canadensis	2	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Euonymus alatus	2	No	UPL	
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of heigh
				Sapling/shrub – Woody plants less than 3 in. DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb – All herbaceous (non-woody) plants, regardle
	22	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30'	)			We advise All words views avaitable 2.29 ft
1. Celastrus orbiculatus	-10	Yes	UPL	Woody vines – All woody vines greater than 3.28 ft height.
2.				
				Hydrophytic Vesetation
3.	_			Vegetation Present? Yes <u>No X</u>
3				Present? Yes No X

		o the dep				tor or co	nfirm the absence of	indicators.)	
		0/					Touture	Damanica	
Depth (inches)		<u>%</u>	Redo Color (moist)	x Featur %  	res <u>Type</u> <sup>1</sup>  	Loc <sup>2</sup>	Texture	Remarks	
	ncentration, D=Depl	etion RM	=Reduced Matrix	MS=Mae	ked Sand	Graine	<sup>2</sup> l ocation: DI	.=Pore Lining, M=Matrix.	
Hydric Soil II Histosol ( Histic Ep Black His Hydroger Stratified Depleted Thick Da Sandy M Sandy Gl Sandy Ro Stripped Dark Sur	ndicators: (A1) ipedon (A2) stic (A3) n Sulfide (A4) Layers (A5) Below Dark Surface rk Surface (A12) ucky Mineral (S1) leyed Matrix (S4) edox (S5) Matrix (S6) face (S7)	• (A11)	Polyvalue Belo MLRA 149E Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matr Redox Dark St Depleted Dark Redox Depres Marl (F10) (LR	ow Surfa 3) face (S9 Sands (S Mineral I Matrix ( ix (F3) urface (F Surface sions (F <b>RR K</b> , L)	ce (S8) ( <b>I</b> ) ( <b>LRR R</b> , 611) ( <b>LRF</b> (F1) ( <b>LRF</b> F2) 	-RR R, MLRA 1 <sup>,</sup> R K, L) R K, L)	Indicators for 2 cm Muc Coast Pra 49B)5 cm Muc Polyvalue Thin Dark Piedmont Red Pare Very Shal	r Problematic Hydric Soil ck (A10) (LRR K, L, MLRA airie Redox (A16) (LRR K, I cky Peat or Peat (S3) (LRR Below Surface (S8) (LRR c Surface (S9) (LRR K, L) ganese Masses (F12) (LRR Floodplain Soils (F19) (ML odic (TA6) (MLRA 144A, 14 nt Material (F21) llow Dark Surface (F22) splain in Remarks)	149B) L, R) K, L, R) K, L) R K, L, R) LRA 149B)
Restrictive L Type:	. <b>ayer (if observed)</b> : Balla	st							
– Depth (in		0					Hydric Soil Present	t? Yes No	o_X_
Remarks: No soils were	collected due to res	trictive la	ver of railroad balla	st at the	surface.				



Upland CS at flag CS-13 - View facing southwest.

Phase 2

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

Project/Site: CHPE	City/County: Slingerlands / Schenectady Sampling Date: 11/12/21
Applicant/Owner: TDI	State: NY Sampling Point: WET CS-45
Investigator(s): C. Scrivner, J. Greaves	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42-37-33	.61N Long: 73-54-40.10W Datum: WGS 84
Soil Map Unit Name: Ug - Udorthents, loamy	NWI classification: PEM2
Are climatic / hydrologic conditions on the site typical for this time of	f year? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignifican	tly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID: <u>Near Flag CS-45</u>
Remarks: (Explain alternative procedures here or in a separate re Palustrine Emergent Marsh. Shallow Emergent Marsh.	port.)
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app	y) Surface Soil Cracks (B6)

X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7)	Stunted or Stressed Plants (D1)
I Inundation Visible on Aerial Imagery (B7		Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B	38)	X FAC-Neutral Test (D5)
Field Observations:         Surface Water Present?       Yes       X         Water Table Present?       Yes       X         Saturation Present?       Yes       X         (includes capillary fringe)       Describe Recorded Data (stream gauge, model)		Wetland Hydrology Present? Yes X No
Remarks:		

Sampling Point: WET CS-45

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:3(A)
3 4				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species x 1 =
1				FACW species 15 x 2 = 30
2.				FAC species 5 x 3 = 15
3.				FACU species 0 x 4 = 0
1				UPL species $10 \times 5 = 50$
4 5.				Column Totals: 80 (A) 145 (B)
				Prevalence Index = $B/A = 1.81$
7.				Hydrophytic Vegetation Indicators:
··		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
	15	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^{1}$
				—
2. Carex vulpinoidea		Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3. Lythrum salicaria	15	Yes	OBL	
4. <u>Leonurus cardiaca</u>	10	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. <u>Alisma triviale</u>	10	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. <u>Scirpus cyperinus</u>	5	No	OBL	be present, unless disturbed or problematic.
7. Typha angustifolia	5	No	OBL	Definitions of Vegetation Strata:
8. <u>Setaria pumila</u>	5	No	FAC	Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12.				Harb All borbassous (non woody) planta, recordings
	80	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				
1,				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
0				
				Hydrophytic
				Vegetation
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separation of the sep	rate sheet.)			

Profile Desc	ription: (Describe	to the de	oth needed to docu	ument ti	ne indica	tor or c	onfirm the absence o	of indicators.)
Depth	Matrix		Redox	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 2/1	55	5Y 4/1	40		M	Loamy/Clayey	Prominent redox concentrations
			2.5Y 6/4	5				Prominent redox concentrations
7-16	10YR 2/1	90	10YR 4/4	10	C	<u>M</u>	Loamy/Clayey	Distinct redox concentrations
<u> </u>								
	oncentration, D=Depl	etion, RM	=Reduced Matrix, M	IS=Mas	ked Sand	Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil			Debaselus Dela		(00) (			for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo		ce (58) (	LRR R,		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	bipedon (A2)		MLRA 149B	,				Prairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		-			ucky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S			-		ue Below Surface (S8) (LRR K, L)
	l Layers (A5)		Loamy Mucky I			R K, L)		ırk Surface (S9) ( <b>LRR K,</b> L)
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Ma	nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		Depleted Matrix				Piedmo	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	lucky Mineral (S1)		X Redox Dark Su	ırface (F	6)		Mesic S	Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	ileyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Pa	rent Material (F21)
Sandy R	edox (S5)		? Redox Depress	sions (Fa	3)		Very Sh	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	<b>R K</b> , L)			Other (E	Explain in Remarks)
Dark Sur	face (S7)							
		ion and w	etland hydrology mu	ist be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive I Type:	_ayer (if observed):							
Depth (ir	nches):						Hydric Soil Prese	ent? Yes X No
Remarks:								



Wetland CS at flag CS-45 - View facing southeast.



Wetland CS-45 - Soils

Phase 2

## SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

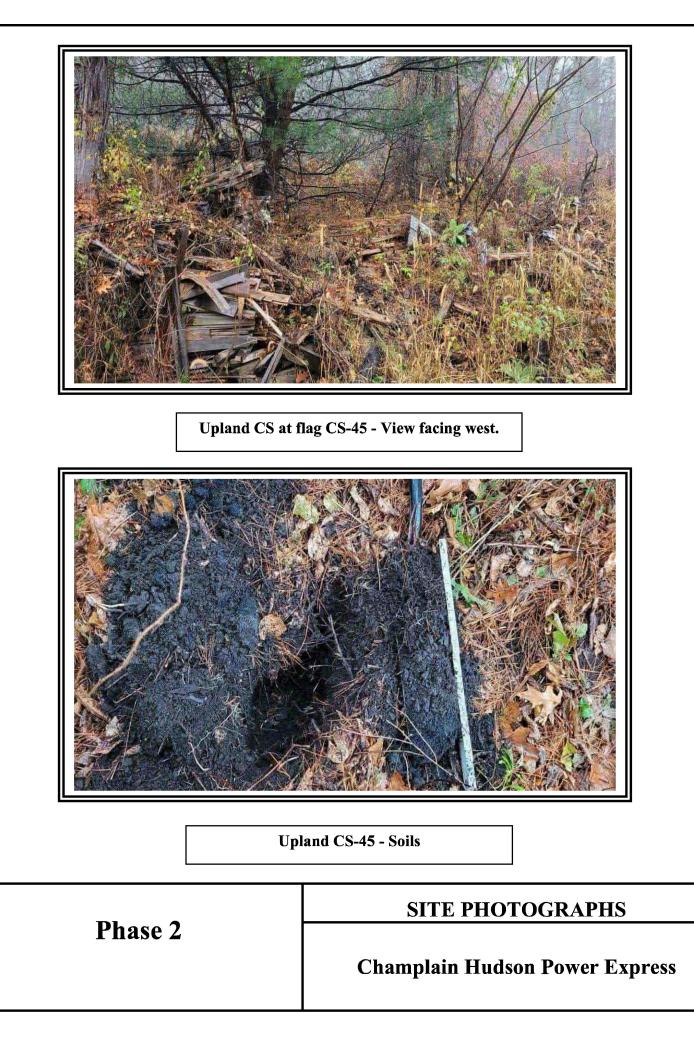
Project/Site: CHPE			City/County: Slinger	lands / Schenectad	ly S	ampling Date:	11/12/21
Applicant/Owner: TDI				State:	NY	Sampling Point	t: UPL CS-45
Investigator(s): C. Scrivner, J. Greaves			Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): Hillslope		Local r	relief (concave, conve	x, none): <u>Concave</u>		Slope	e %: <u>5</u>
Subregion (LRR or MLRA): LRR R	Lat:	42-37-32.95N	Long:	73-54-40.17W		Datum:	WGS 84
Soil Map Unit Name: Ug - Udorthents, loamy				NWI classifica	ation: <u>I</u>	NA	
Are climatic / hydrologic conditions on the site typica	al for t	this time of year?	Yes X	No (Ii	f no, ex	plain in Remark	.s.)
Are Vegetation, Soil, or Hydrology		significantly distur	bed? Are "Norm	nal Circumstances"	' presen	it? Yes X	No
Are Vegetation, Soil, or Hydrology		naturally problema	atic? (If needed	d, explain any answ	vers in F	≀emarks.)	
SUMMARY OF FINDINGS – Attach site	map	showing sam	pling point locat	ions, transects	s, imp	ortant featu	res, etc.
Hydrophytic Vegetation Present? Yes		No_X_	Is the Sampled A	rea			
Hydric Soil Present? Yes		No X	within a Wetland	? Yes_		No <u>X</u>	
Wetland Hydrology Present? Yes		No <u>X</u>	If yes, optional We	tland Site ID:			
Remarks: (Explain alternative procedures here or Successional Northern Hardwood Forest.	in a se	eparate report.)					

Wetland Hydrology Indicators:			Secondary Indicators (min	imum of two required)		
Primary Indicators (minimum of one is requi	Surface Soil Cracks (B6)					
Surface Water (A1)	water (A1) Water-Stained Leaves (B9)			Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16	)		
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Tal	ble (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Re	oots (C3)	Saturation Visible on A	Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed P	lants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soil	s (C6)	Geomorphic Position (	(D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7	<ol> <li>Other (Explain in Remarks)</li> </ol>		Microtopographic Relie	ef (D4)		
Sparsely Vegetated Concave Surface (E	38)		FAC-Neutral Test (D5)	)		
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes	No X Depth (inches):					
Saturation Present? Yes	No X Depth (inches):	Wetlan	d Hydrology Present?	Yes No X		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous inspe	ections), if	available:			
Remarks:						

Sampling Point: UPL CS-45

<u>Tree Stratum</u> (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer negundo	35	Yes	FAC	Number of Dominant Species
2. Pinus strobus	35	Yes	FACU	That Are OBL, FACW, or FAC:3 (A)
3.			UPL	Total Number of Dominant
4.				Species Across All Strata: 12 (B)
5.				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/
7.				Prevalence Index worksheet:
	70	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)	-		OBL species 0 $x 1 = 0$
1. Acer platanoides	- 5	Yes	UPL	FACW species $0   x 2 = 0$
2. Rhamnus cathartica	5	Yes	FAC	FAC species 55 x 3 = 165
3. Rhus typhina	5	Yes	UPL	FACU species 77 x 4 = 308
4. Prunus pensylvanica	5	Yes	FACU	UPL species 15 x 5 = 75
5. Rubus allegheniensis	5	Yes	FACU	Column Totals: 147 (A) 548 (B
6.				Prevalence Index = $B/A = 3.73$
7.				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Her <u>b Stratum</u> (Plot size: 5')		-		2 - Dominance Test is >50%
1. Rubus allegheniensis	10	Yes	FACU	$3 - Prevalence Index is \leq 3.0^{1}$
2. Solidago canadensis	<u>10</u>	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide support
3. Thelypteris noveboracensis	10	Yes	FAC	data in Remarks or on a separate sheet)
4. Poa pratensis	5	<u> </u>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Geum canadense	5	<u>No</u>	FAC	
	2	<u> </u>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
		NO	FACO	
78.				Definitions of Vegetation Strata:
o 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigh
				diameter at breast neight (DBH), regardless of neigh
10		<u> </u>		Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12		- <u> </u>		Herb – All herbaceous (non-woody) plants, regardles
	42	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30'	_)	N/		Woody vines – All woody vines greater than 3.28 ft
1. Celastrus orbiculatus	5	Yes	UPL	height.
2. Vitis aestivalis	5	Yes	FACU	Hydrophytic
3		<u> </u>		Vegetation
4				Present? Yes No X
	10	=Total Cover		

Profile Desc	ription: (Describe f	to the de	oth needed to docu	ument ti	he indica	tor or c	onfirm the absence o	of indicators.)		
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-16	10YR 2/1	100					Loamy/Clayey			
16-20	10YR 3/1	80	10YR 2/1	20	<u> </u>	<u> </u>	Loamy/Clayey	Faint rec	dox concentrations	6
						_				
<sup>1</sup> Type: C=Co	ncentration, D=Depl	etion, RM		/IS=Mas	ked Sand	Grains.	<sup>2</sup> Location: F		, M=Matrix.	
Hydric Soil I	ndicators:						Indicators f	or Problemati	c Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	2 cm M	uck (A10) ( <b>LRR</b>	R K, L, MLRA 1498	<b>B</b> )
Histic Ep	ipedon (A2)		MLRA 149B	)			Coast P	rairie Redox (A	16) ( <b>LRR K, L, R</b> )	)
Black His	stic (A3)		Thin Dark Surf	ace (S9	) ( <b>LRR R</b>	, MLRA <sup>·</sup>	149B)5 cm Mi	ucky Peat or Pe	eat (S3) ( <b>LRR K, L</b>	., R)
Hydroger	n Sulfide (A4)		High Chroma S				Polyvalu	ue Below Surfa	ce (S8) ( <b>LRR K, L</b>	.)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Da	rk Surface (S9)	(LRR K, L)	
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Ma	nganese Masse	es (F12) ( <b>LRR K, I</b>	L, R)
Thick Da	rk Surface (A12)		Depleted Matri				Piedmo	nt Floodplain S	oils (F19) ( <b>MLRA</b> <sup>·</sup>	149B)
Sandy M	ucky Mineral (S1)		Redox Dark Su	urface (F	-6)		Mesic S	podic (TA6) ( <b>M</b>	ILRA 144A, 145, 1	<b>49B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Par	rent Material (F	21)	
Sandy R	edox (S5)		Redox Depress	sions (F	8)		Very Sh	allow Dark Sur	face (F22)	
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	Explain in Rema	arks)	
Dark Sur	face (S7)									
	hydrophytic vegetat ayer (if observed):		etland hydrology mu	ust be pi	resent, ur	nless dist	turbed or problematic.			
Type:	ayer (il observed).									
Depth (in	ches):						Hydric Soil Prese	nt? Ye	s No_>	<u>×</u>
Remarks:										



Project/Site: CHPE		Ci	ty/County: New Scotland/Albany	Sampling Date: 11/11/21
Applicant/Owner: TDI			State:	NY Sampling Point: CR-14 Wet
Investigator(s): N. Frazer, C. Einste	əin		Section, Township, Range:	
Landform (hillside, terrace, etc.):	flat	Local relie	ef (concave, convex, none): <u>none</u>	Slope %: 0
Subregion (LRR or MLRA): LRR F	र Lat:	42-37-00N	Long: 73-54-16W	Datum: WGS84
Soil Map Unit Name: Wayland soil	s complex (We)		NWI classifi	cation: PEM
Are climatic / hydrologic conditions	on the site typical for	this time of year?	Yes <u>x</u> No	(If no, explain in Remarks.)
Are Vegetation, Soil	, or Hydrology	significantly disturbed	? Are "Normal Circumstance:	s" present? Yes x No
Are Vegetation, Soil	, or Hydrology	_naturally problematic	(If needed, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS -	Attach site map	showing sampli	ng point locations, transec	ts, important features, etc.
Hydrophytic Vegetation Present?	Yes X	No	s the Sampled Area	
Hydric Soil Present?	Yes X	No	within a Wetland? Yes	X No
Wetland Hydrology Present?	Yes X	No	f yes, optional Wetland Site ID:	
Remarks: (Explain alternative proc	edures here or in a s	eparate report.)		
Common reed marsh.				

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)			
Surface Water (A1)	Drainage Patterns (B10)			
X High Water Table (A2)	Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	oots (C3)	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	s (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7	) Other (Explain in Remarks)		Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (E	38)		X FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes	No x Depth (inches):			
Water Table Present? Yes x	No Depth (inches): 12			
Saturation Present? Yes	No x Depth (inches):	Wetlan	d Hydrology Present? Yes X No	
Saturation Present? Yes (includes capillary fringe)	No x Depth (inches):	Wetlan	d Hydrology Present? Yes X No	
(includes capillary fringe)				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				
(includes capillary fringe)				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				
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(includes capillary fringe) Describe Recorded Data (stream gauge, mo			· · · ·	
(includes capillary fringe) Describe Recorded Data (stream gauge, mo			· · · ·	

Sampling Point: CR-14 Wet

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30'</u> )	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	15	Yes	FACW	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 2 (A)
3.				
		·		Total Number of Dominant
4		·		Species Across All Strata: <u>3</u> (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC:66.7% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				$\frac{1}{\text{OBL species}}  0 \qquad \text{x1} = 0$
	10	Vaa	FACU	·
1. Lonicera morrowii	10	Yes	FACU	FACW species <u>115</u> x 2 = <u>230</u>
2				FAC species5 x 3 =15
3				FACU species 15 x 4 =60
4				UPL species 0 x 5 = 0
				Column Totals: 135 (A) 305 (B)
		·		
6		·		Prevalence Index = B/A = 2.26
7		. <u> </u>		Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Phragmites australis	100	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2. <u>Acer rubrum</u>	5	No	FAC	data in Remarks or on a separate sheet)
3. Lonicera morrowii	5	No	FACU	data in remarks of on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7		·		Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				
11.		·		<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
		·		
12				Herb - All herbaceous (non-woody) plants, regardless
	110	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
0		·		
				Hydrophytic
3		·		Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			•
· · · · · · · · · · · · · · · · · · ·	, , , ,			

SOIL	
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		to the dep				itor or co	onfirm the absence of	f indicators.)
Depth (in the s)	Matrix			x Featur		12	<b>T f</b>	Demedia
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-13	10YR 2/1	100					Loamy/Clayey	
13-20	10YR 4/1	90	5YR 4/6			<u> </u>	Loamy/Clayey	Prominent redox concentrations
							·	
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	//S=Masl	ked Sand	Grains.		L=Pore Lining, M=Matrix.
Black Hi Hydroge Stratified Depleted X Thick Da Sandy M Sandy G Sandy F Stripped Dark Su <sup>3</sup> Indicators o Restrictive Type:	(A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7) f hydrophytic vegetat Layer (if observed): non	ion and w	Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Depleted Matri Redox Dark Su Depleted Dark Redox Depres Marl (F10) (LR	ace (S9) Sands (S Mineral ( Matrix ( Matrix ( Matrix ( Surface (F Surface sions (F <b>R K</b> , L)	) (LRR R 611) (LRI (F1) (LRI F2) 6) (F7) 3)	, MLRA 1 R K, L) R K, L)	2 cm Mu Coast Pr 5 cm Mu Polyvalu Thin Dar Iron-Mar Mesic Sp Red Pare Very Sha	or Problematic Hydric Soils <sup>3</sup> : ack (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) acky Peat or Peat (S3) (LRR K, L, R) the Below Surface (S8) (LRR K, L) the Surface (S9) (LR K, L) the Surface (S9
							2.0 to include the NR0	nt? Yes X No



Wetland CR at flag CR-14 (PEM) - View facing northwest.



Wetland CR-14 (PEM) - Soils

Phase 2

## SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

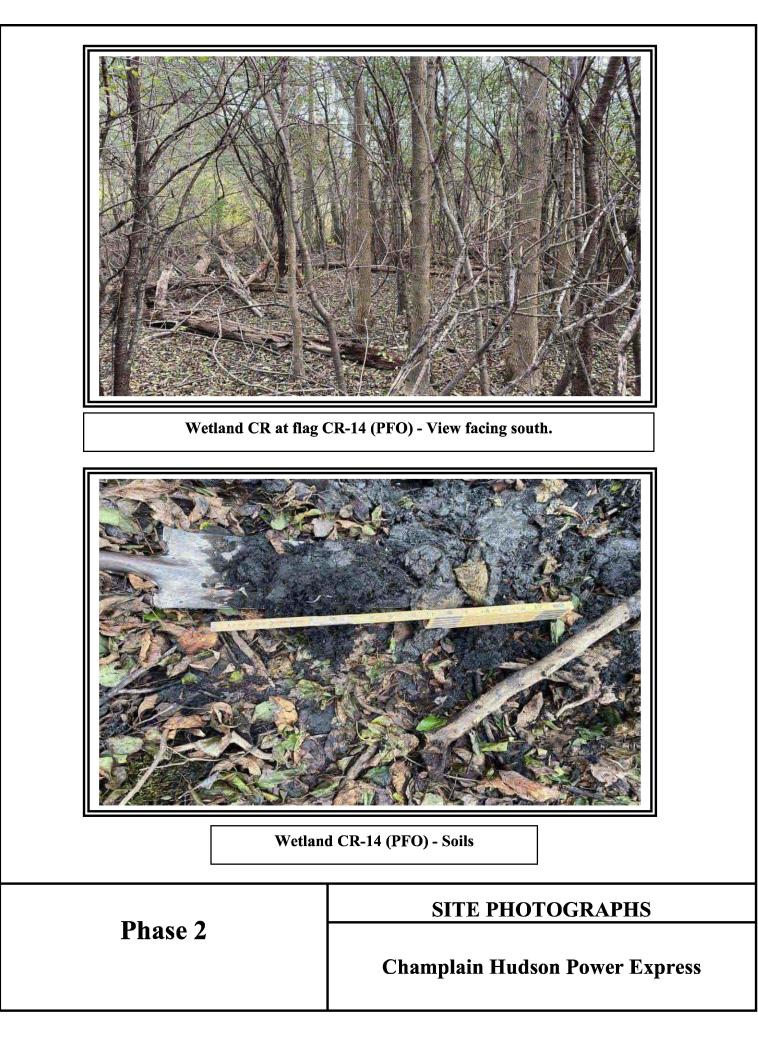
Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date:	1/11/21
Applicant/Owner: <u>TDI</u>	State: NY Sampling Point:	CR-14 Wet
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:	
Landform (hillside, terrace, etc.): flat	Local relief (concave, convex, none): none Slope	%: 0
Subregion (LRR or MLRA): LRR R	Lat: <u>42-37-00N</u> Long: <u>73-54-16W</u> Datum: <u>N</u>	WGS 84
Soil Map Unit Name: Wayland soils complex (	(We) NWI classification: PFO	
Are climatic / hydrologic conditions on the site ty	typical for this time of year? Yes x No (If no, explain in Remarks.	.)
Are Vegetation, Soil, or Hydrolog	ogysignificantly disturbed? Are "Normal Circumstances" present? Yes	No
Are Vegetation, Soil, or Hydrolog	ogynaturally problematic? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach si	site map showing sampling point locations, transects, important feature	es, etc.
Hydrophytic Vegetation Present? Y	Yes X No Is the Sampled Area	
Hydric Soil Present? Y	Yes X No within a Wetland? Yes X No	
Wetland Hydrology Present? Y	Yes X No If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here	re or in a separate report.)	

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is requir	Surface Soil Cracks (B6)		
Surface Water (A1)	Drainage Patterns (B10)		
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	oots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	s (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		X Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7	) Other (Explain in Remarks)		Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B	8)		FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes	No x Depth (inches):		
Water Table Present? Yes x	No Depth (inches): 6		
Saturation Present? Yes x	No Depth (inches): 4	Wetlan	nd Hydrology Present? Yes <u>X</u> No
		Wetlan	nd Hydrology Present? Yes X No
Saturation Present? Yes x	No Depth (inches):4		
Saturation Present?     Yes     x       (includes capillary fringe)	No Depth (inches):4		
Saturation Present?       Yes       x         (includes capillary fringe)	No Depth (inches):4		
Saturation Present?     Yes     x       (includes capillary fringe)	No Depth (inches):4		
Saturation Present?       Yes       x         (includes capillary fringe)	No Depth (inches):4		
Saturation Present?       Yes       x         (includes capillary fringe)	No Depth (inches):4		
Saturation Present?       Yes       x         (includes capillary fringe)	No Depth (inches):4		
Saturation Present?       Yes       x         (includes capillary fringe)	No Depth (inches):4		
Saturation Present?       Yes       x         (includes capillary fringe)	No Depth (inches):4		
Saturation Present?       Yes       x         (includes capillary fringe)	No Depth (inches):4		
Saturation Present?       Yes       x         (includes capillary fringe)	No Depth (inches):4		
Saturation Present?       Yes       x         (includes capillary fringe)	No Depth (inches):4		

Sampling Point: CR-14 Wet

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30'</u> )	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	55	Yes	FACW	Number of Dominant Species
2. Rhamnus cathartica	35	Yes	FAC	That Are OBL, FACW, or FAC:3(A)
3				Total Number of Dominant
4				Species Across All Strata: (B)
5				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: 75.0% (A/B)
7.				Prevalence Index worksheet:
	90	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 = 0
1. Lonicera morrowii	15	Yes	FACU	FACW species 55 x 2 = 110
2. Rhamnus cathartica	10	Yes	FAC	FAC species 45 x 3 = 135
3.				FACU species 17 x 4 = 68
				UPL species $0 \times 5 = 0$
4 5.				Column Totals: 117 (A) 313 (B)
6.				Prevalence Index = B/A = 2.68
7				Hydrophytic Vegetation Indicators:
	25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Lonicera morrowii	2	No	FACU	X_3 - Prevalence Index is ≤3.0 <sup>1</sup>
2				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric coll and watland hydrology must
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
o				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb - All herbaceous (non-woody) plants, regardless
	2	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				
3				Hydrophytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			
	,			

Profile Desc	ription: (Describe	to the de	pth needed to docu	ument ti	he indica	ator or co	onfirm the absence of	f indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 2/1	100					Loamy/Clayey	
6-12	10YR 5/1	60	10YR 5/8	40	<u> </u>	M	Loamy/Clayey	Prominent redox concentrations
							·	
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RN		/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil			· · ·					or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,		ick (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	pipedon (A2)		MLRA 149B	)			? Coast Pr	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi	stic (A3)		Thin Dark Surf	ace (S9)	) (LRR R	, MLRA 1	149B) 5 cm Mu	icky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	611) ( <b>LRF</b>	R K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)
	Below Dark Surface	e (A11)	Loamy Gleyed					nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	. ,	X Depleted Matri					nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		6)			oodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	leyed Matrix (S4)		Depleted Dark					ent Material (F21)
					• •			<b>、</b>
Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)								
	face (S7)			ux IX, E/				
<sup>3</sup> Indicators of	f hydrophytic vegetat	ion and w	/etland hydrology mι	ust be pr	esent, ur	nless dist	urbed or problematic.	
Restrictive I	_ayer (if observed):							
Туре:	roc	k						
Depth (ir	nches):	12					Hydric Soil Preser	nt? Yes <u>X</u> No
Remarks:							•	
								CS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	/ww.nrcs.	usda.gov/Internet/F3	SE_DOC	JUMENT	S/nrcs14	2p2_051293.docx)	



Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	State: NY Sampling Point: CR-14 Upl
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): flat Loca	al relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42-37-00N	Long: <u>73-54-16W</u> Datum: <u>WGS 84</u>
Soil Map Unit Name: Wayland soils complex (We)	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly dist	urbed? Are "Normal Circumstances" present? Yes x No
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	npling point locations, transects, important features, etc.

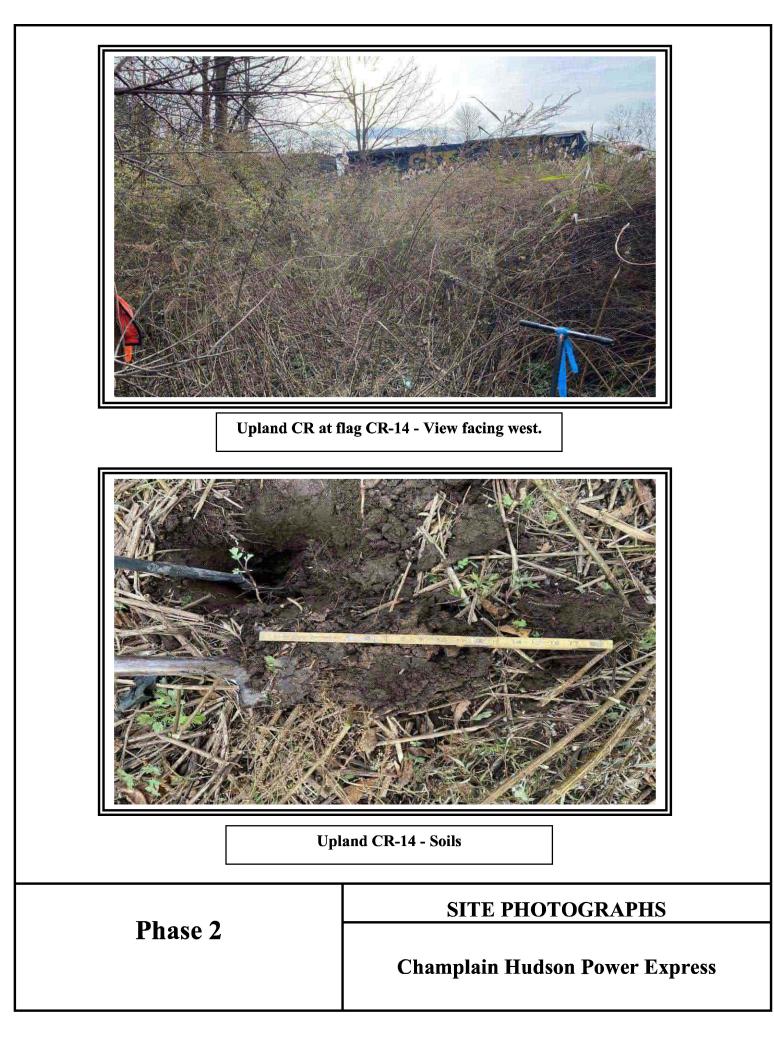
Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu Successional old field.	res here or in a :	separate report.)	

Wetland Hydrology Indicators:			Secondary Indicators (mini	mum of two required)	
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Cracks (B	6)	
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10	D)	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Tab	ole (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)		
Sediment Deposits (B2)	oots (C3)	(C3) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Pl	ants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	s (C6)	Geomorphic Position (I	D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7	) Other (Explain in Remarks)		Microtopographic Relie	ef (D4)	
Sparsely Vegetated Concave Surface (E	38)		FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present? Yes	No x Depth (inches):				
Water Table Present? Yes	No x Depth (inches):				
Saturation Present? Yes	No x Depth (inches):	Wetlar	nd Hydrology Present?	Yes No X	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ctions), if	available:		
Remarks:					

Sampling Point: CR-14 Upl

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Rhamnus cathartica	15	Yes	FAC	
2.				Number of Dominant Species         That Are OBL, FACW, or FAC:         1         (A)
3				Total Number of Dominant Species Across All Strata:3(B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				$\frac{1}{\text{OBL species}}  0 \qquad \text{x1} = 0$
	15	Yes	FACU	FACW species $0   x^2 = 0$
				FAC species $15 \times 3 = 45$
				FACU species $15 \times 4 = 60$
4				UPL species $95 \times 5 = 475$
5				Column Totals: <u>125</u> (A) <u>580</u> (B)
6			·	Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Artemisia vulgaris	95	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6 7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic
				Vegetation Present? Yes <u>No X</u>
4		=Total Cover		
Demositori (includo pierto numbero horo er en e cono				
Remarks: (Include photo numbers here or on a separation of the sep	ate sneet.)			

Depth       Matrix       Redox Features         (inches)       Color (moist)       %       Type <sup>1</sup> Loc <sup>2</sup> Texture       Remarks         0-20       10YR 2/2       100	(inches)       Color (moist)       %       Type1       Loc22       Texture         0-20       10YR 2/2       100	
0-20       10YR 2/2       100       Loamy/Clayey       with stone/fill material	0-20       10YR 2/2       100       Loamy/Clayey	with stone/fill material
Image: Solution in the second seco	Image:	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Hydric Soil Indicators:       Indicators for I         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, 2 cm Muck         Histic Epipedon (A2)       MLRA 149B)       Coast Prair         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (F1) (LRR K, L)	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Hydric Soil Indicators:       Indicators for I         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, 2 cm Muck         Histic Epipedon (A2)       MLRA 149B)       Coast Prair         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (F1) (LRR K, L)	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14 Matrix (S4)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Hydric Soil Indicators:Indicators for IHistosol (A1)Polyvalue Below Surface (S8) (LRR R, 2 cm MuckHistic Epipedon (A2)MLRA 149B)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14 Matrix (S4)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Hydric Soil Indicators:Indicators for IHistosol (A1)Polyvalue Below Surface (S8) (LRR R, 2 cm MuckHistic Epipedon (A2)MLRA 149B)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for I         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, 2 cm Muck         Histic Epipedon (A2)       MLRA 149B)       Coast Prair         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (F1) (LRR K, L)	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for I         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, 2 cm Muck         Histic Epipedon (A2)       MLRA 149B)       Coast Prair         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (F1) (LRR K, L)	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:Indicators for IHistosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)2 cm Muck Coast PrairBlack Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Muck Polyvalue BHydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue BStratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)Thin Dark Surface (S9)	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for I         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, 2 cm Muck         Histic Epipedon (A2)       MLRA 149B)       Coast Prair         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (F1) (LRR K, L)	
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Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14 Matrix (S4)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Hydric Soil Indicators:Indicators for IHistosol (A1)Polyvalue Below Surface (S8) (LRR R, 2 cm MuckHistic Epipedon (A2)MLRA 149B)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14 Matrix (S4)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Hydric Soil Indicators:Indicators for IHistosol (A1)Polyvalue Below Surface (S8) (LRR R, 2 cm MuckHistic Epipedon (A2)MLRA 149B)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for I         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, 2 cm Muck         Histic Epipedon (A2)       MLRA 149B)       Coast Prair         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (F1) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (F1) (LRR K, L)	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14 Matrix (S4)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Hydric Soil Indicators:Indicators for IHistosol (A1)Polyvalue Below Surface (S8) (LRR R, 2 cm MuckHistic Epipedon (A2)MLRA 149B)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)	
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14 Matrix (S4)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Hydric Soil Indicators:Indicators for IHistosol (A1)Polyvalue Below Surface (S8) (LRR R, 2 cm MuckHistic Epipedon (A2)MLRA 149B)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)	
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L,         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14G)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14G)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer (if observed):	Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck         Histic Epipedon (A2)       MLRA 149B)       Coast Prain         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9)	
Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, L)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14         Sandy Mucky Mineral (S1)       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Bark Surface (S7)       Restrictive Layer (if observed):       Other (Explain in Remarks)	Histic Epipedon (A2)       MLRA 149B)       Coast Prair         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue B         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark S	-
Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, Polyvalue Below Surface (S8) (LRR K, L)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Other restrictive Layer (if observed):	Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue E         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark S	
Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Restrictive Layer (if observed):	Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue E         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark S	
Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Thin Dark S	
Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Restrictive Layer (if observed):		
Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Ketland hydrology must be present, unless disturbed or problematic.		
Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Image: Comparison of the present of the pres		
Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Very Shallow Dark Surface (F22)		
Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       3         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer (if observed):		
Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):		. ,
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed):		
Restrictive Layer (if observed):		
Restrictive Layer (if observed):	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Type: none		
	Type: none	
Denth (inches): Hydric Soil Present? Yes No X	Denth (inches): Hydric Soil Present?	Yes No X
Depth (inches):         Hydric Soil Present?         Yes         No         X           Remarks:	Depth (inches): Hydric Soil Present?	Yes <u>No X</u>



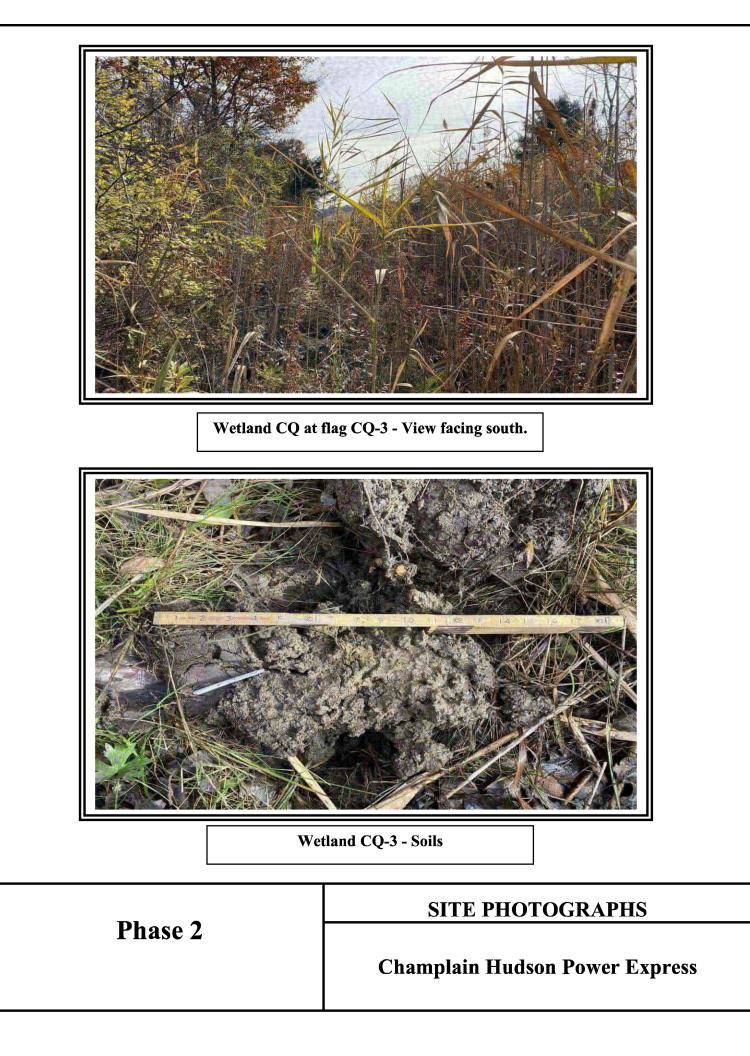
Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21
Applicant/Owner: TDI	State: NY Sampling Point: CQ-3- wet
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex, none): concave Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42	2-36-42N Long: <u>73-54-05W</u> Datum: <u>WGS 84</u>
Soil Map Unit Name: Burdett silt loam (BuB)	NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this	s time of year? Yes <u>x</u> No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysi	ignificantly disturbed? Are "Normal Circumstances" present? Yes <u>x</u> No
Are Vegetation, Soil, or Hydrologyn	aturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X	No Is the Sampled Area
	No within a Wetland? Yes X No
Wetland Hydrology Present? Yes X	No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a sep Isolated common reed marsh.	parate report.)

HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cracks (B6)			
X Surface Water (A1) X Water-Stained Leaves (B9)		Drainage Patterns (B10)			
X High Water Table (A2) Aquatic Fauna (B13)	_	Moss Trim Lines (B16)			
X Saturation (A3) Marl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1) X Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)			
Sediment Deposits (B2) Oxidized Rhizospheres on Living Ro	oots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3) Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils	s (C6)	X Geomorphic Position (D2)			
Iron Deposits (B5) Thin Muck Surface (C7)		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	-	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8)	-	X FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes x No Depth (inches): 0.25					
Water Table Present?     Yes     x     No     Depth (inches):     7					
Saturation Present? Yes x No Depth (inches): 6	Wetland	l Hydrology Present? Yes X No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe	ctions), if a	vailable:			
Remarks:					
No inlet or outlet.					

Sampling Point: CQ-3- wet

	Absolute % Cover	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30'</u> )	% Cover	Species?	Status	Dominance Test Worksneet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4				Species Across All Strata: 2 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 50.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =2
1. Populus tremuloides	10	Yes	FACU	FACW species 90 x 2 = 180
2.				FAC species 2 x 3 = 6
3.				FACU species 10 x 4 = 40
4				UPL species 0 x 5 = 0
5.				Column Totals: 114 (A) 238 (B)
6				Prevalence Index = B/A = 2.09
7.				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Phragmites australis	85	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^{1}$
	12		OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
· · · · · · · · · · · · · · · · · · ·		<u>No</u>		data in Remarks or on a separate sheet)
3. Prunella vulgaris		<u>No</u>	FAC	
4. Lysimachia nummularia	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	104	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic Monstation
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa				
	ate sheet.)			

Profile Desc	ription: (Describe	to the de	epth needed to doc	ument ti	he indica	tor or c	onfirm the absence of ir	idicators.)	
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	10YR 4/1	100					Loamy/Clayey		
7-20	10YR 5/1	60	10YR 5/6	40	c		Loamy/Clayey	Prominent redox concentrations	
	ncentration D=Den	letion R	M=Reduced Matrix, N	/S=Mas	ked Sand	Grains	<sup>2</sup> l ocation: Pl =	Pore Lining, M=Matrix.	
Hydric Soil				10 11103				Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R.		(A10) ( <b>LRR K, L, MLRA 149B</b> )	
	pipedon (A2)		 MLRA 149B		() (-			ie Redox (A16) ( <b>LRR K, L, R</b> )	
	Black Histic (A3)			-	) (LRR R	, MLRA	149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
X Hydrogen Sulfide (A4)			High Chroma S	Sands (S	611) ( <b>LRF</b>	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)		
Stratified	l Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LRI</b>	R K, L)	Thin Dark S	Surface (S9) ( <b>LRR K,</b> L)	
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Manga	nese Masses (F12) ( <b>LRR K, L, R</b> )	
Thick Da	ark Surface (A12)		X Depleted Matri	x (F3)			Piedmont F	loodplain Soils (F19) (MLRA 149B)	
	lucky Mineral (S1)		Redox Dark Su	•				dic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21)					<b>、</b>				
Sandy Redox (S5)			Redox Depres	•	8)			w Dark Surface (F22)	
I — · ·	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K</b> , L)			Other (Expl	ain in Remarks)	
Dark Su	face (S7)								
<sup>3</sup> Indicators of	f hydrophytic yegeta	ion and y	wetland hydrology m	iet ha ni	rocont ur	aloce diet	urbed or problematic.		
	_aver (if observed):		vetiand nydrology me	ust ne hi	esent, u	11633 0130			
Type:	nor								
Depth (ir							Hydric Soil Present?	Yes <u>X</u> No	
Remarks:									
This data for	m is revised from No	orthcentra	I and Northeast Reg	ional Su	pplement	t Version	2.0 to include the NRCS	Field Indicators of Hydric Soils,	
Version 7.0,	2015 Errata. (http://v	ww.nrcs	.usda.gov/Internet/F	SE_DOO	CUMENT	S/nrcs14	2p2_051293.docx)		



Project/Site: CHPE				City/Co	ounty: <u>New Sc</u>	otland/ Albany		Sampling Date:	11/11/21
Applicant/Owner:	TDI					State:	NY	Sampling Point:	CQ-3- Upl
Investigator(s): N. Fra	azer, C. Einst	ein			_Section, Tov	vnship, Range:			
Landform (hillside, ter	race, etc.):	flat		Local relief (co	oncave, conve	k, none): <u>none</u>		Slope	%:
Subregion (LRR or ML	.RA): <u>LRR</u>	R	Lat:	42-36-42N	Long:	73-54-05W		Datum:	WGS 84
Soil Map Unit Name:	Burdett silt le	oam (BuB)				NWI classi	fication:	N/A	
Are climatic / hydrolog	ic conditions	on the site typica	al for t	his time of year?	Yes <u>x</u>	No	(If no, e	explain in Remarks	.)
Are Vegetation	, Soil	, or Hydrology _		significantly disturbed?	Are "Norm	al Circumstanc	es" pres	ent? Yes <u>x</u>	No
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If needed	, explain any an	swers ir	Remarks.)	
SUMMARY OF F	INDINGS -	- Attach site ı	map	showing sampling	point locati	ons, transe	cts, im	portant featur	es, etc.

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area           within a Wetland?         Yes         NoX           If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedure Deciduous forested upland.	es here or in a	separate report.)	•

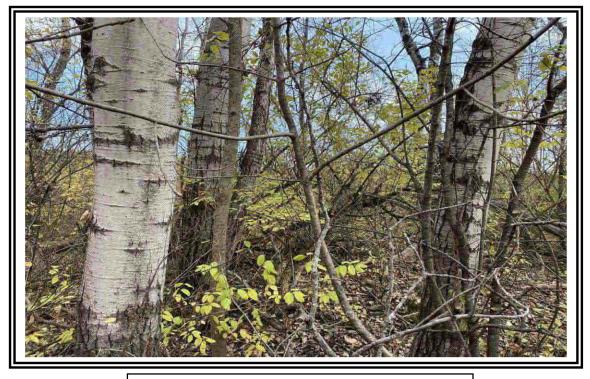
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)	<u> </u>		
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)	Saturation (A3) Marl Deposits (B15)					
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Re	oots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soil	s (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B	7) Other (Explain in Remarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (	38)		FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present? Yes	No x Depth (inches):					
Water Table Present? Yes	No x Depth (inches):					
Saturation Present? Yes	No x Depth (inches):	Wetlan	nd Hydrology Present? Yes No	х		
Saturation Present? Yes (includes capillary fringe)		Wetlan	nd Hydrology Present? Yes No	<u>x</u>		
	No x Depth (inches):			<u>x</u>		
(includes capillary fringe)	No x Depth (inches):			<u>x</u>		
(includes capillary fringe)	No x Depth (inches):			<u>x</u>		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	No x Depth (inches):			<u>×</u>		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	No x Depth (inches):			×		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	No x Depth (inches):			×		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	No x Depth (inches):			<u>x</u>		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	No x Depth (inches):			<u>x</u>		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	No x Depth (inches):			<u>x</u>		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	No x Depth (inches):			x		
(includes capillary fringe) Describe Recorded Data (stream gauge, mo	No x Depth (inches):			<u>x</u>		

Sampling Point: CQ-3- Upl

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: <u>30'</u> )	% Cover	Species?	Status	Dominance Test worksheet:
1. Populus tremuloides	60	Yes	FACU	Number of Dominant Species
2. Prunus serotina	35	Yes	FACU	That Are OBL, FACW, or FAC:(A)
<ol> <li>Fraxinus americana</li> <li>4.</li> </ol>	5	<u>No</u>	FACU	Total Number of Dominant Species Across All Strata: 6 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: <u>16.7%</u> (A/B)
7.				Prevalence Index worksheet:
	100	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species 0 x 1 = 0
1. Lonicera morrowii	30	Yes	FACU	FACW species 0 x 2 = 0
2. Cornus racemosa	20	Yes	FAC	FAC species 20 x 3 = 60
3.				FACU species 147 x 4 = 588
4.				UPL species 0 x 5 = 0
5.				Column Totals: 167 (A) 648 (B)
6.				Prevalence Index = B/A = 3.88
7.				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5')				2 - Dominance Test is >50%
1. Lonicera morrowii	10	Yes	FACU	$3 - Prevalence Index is \leq 3.0^1$
2. Rubus allegheniensis	2	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
2				data in Remarks or on a separate sheet)
		·		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	12	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis aestivalis	5	Yes	FACU	height.
2				
3				Hydrophytic Vegetation
4.				Present? Yes No X
	5	=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

SOIL	
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Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, L)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, P)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F21)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes No _X         Restrictive Layer (if observed):       Type:	(inches)         Color (moist)         %         Color (moist)         %         Type'         Loc"         Texture         Remarks           0-10         10YR 2/1         100	Profile Des	cription: (Describe	to the dep	oth needed to doc	ument t	he indica	ator or co	onfirm the absence of inc	licators.)	
0-10         10YR 2/1         100	0-10       10YR 2/1       100       Loamy/Clayey         10-20       10YR 4/3       100       Loamy/Clayey         11       10       Polyalue Below Surface (S8) (LRR R, IR K, I       Indicators for Problematic Hydric Solis <sup>1</sup> :         Histic Call Indicators:       Histic Call Area 6(A)       Histic Call Area 6(S9) (LRR K, L)       Coast Praine Redox (Call (S0) (LRR K, L, R)         11       Depleted Below Dark Surface (A11)       Loamy Worky Mineral	-									
10-20       10YR 4/3       100	10-20       10YR 4/3       100	(inches)	Color (moist)	%	Color (moist)	%	Type '	Loc <sup>2</sup>	Texture	Rema	arks
Image: state of the state	Image: Second State Sta	0-10	10YR 2/1	100					Loamy/Clayey		
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	10-20	10YR 4/3	100					Loamy/Clayey		
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Tone       Depleted In Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Very Shallow Dark Surface (F22)         Bark Surface (S7)       No _ X	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :		·								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :		- <u> </u>								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :		· · ·								
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :		·	·							
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	<sup>1</sup> Type: C=C	oncentration. D=Dep	letion. RM		//S=Mas	ked Sand	Grains.	<sup>2</sup> Location: PL=P	ore Linina. M=N	latrix.
Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, P)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Siturbed or problematic.         Restrictive Layer (if observed):         Type:       none         Depth (inches):       Hydric Soil Present?       Yes NoX	Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, P)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 145, 1491         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1491         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3 <sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       No         Remarks:       Hydric Soil Present?       Yes       No			,							
Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, Polyvalue Below Surface (S8) (LRR K, L, D)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, Piedmont Floodplain Soils (F19) (MLRA 14, Sandy Mucky Mineral (S1)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       ************************************	Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R, Hydrogen Sulfide (A4)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, F         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 145         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer (if observed):         Type:       none          Depth (inches):       Hydric Soil Present?       Yes       No       X	Histosol	l (A1)		Polyvalue Belo	w Surfa	ice (S8) (	LRR R,	2 cm Muck (	A10) ( <b>LRR K, L</b>	MLRA 149B)
Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 14         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       none       No       X         Depth (inches):       Hydric Soil Present?       Yes       No	Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, F         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1445, 145, 149)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer (if observed):         Type:       none       Depth (inches):       No X         Remarks:       Hydric Soil Present?       Yes       No X	Histic E	pipedon (A2)		MLRA 149B	5)			Coast Prairie	e Redox (A16) ( <b>I</b>	<b>.RR K, L, R</b> )
Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L,         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 14         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       none         Depth (inches):       Hydric Soil Present?       Yes NoX	Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, F         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:       none         Type:       none       No       X         Depth (inches):       Remarks:       Hydric Soil Present?       Yes       No       X	Black H	istic (A3)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA <sup>·</sup>	149B)5 cm Mucky	Peat or Peat (S	3) ( <b>LRR K, L, R</b> )
Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, Piedmont Floodplain Soils (F19) (MLRA 14         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 144         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Restrictive Layer (if observed):       Type:         Type:       none       No       X	Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L, F         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 148         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       none         Depth (inches):       Yes       No       X         Remarks:       Hydric Soil Present?       Yes       No       X	Hydroge	en Sulfide (A4)		High Chroma	Sands (S	311) ( <b>LRI</b>	R K, L)	Polyvalue Be	elow Surface (St	B) ( <b>LRR K, L</b> )
Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 14         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       none         Depth (inches):       Hydric Soil Present?       Yes No _X	Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Amark Surface (S7)       Restrictive Layer (if observed):         Type:       none       No       X         Depth (inches):       Remarks:       Yes       No       X	Stratifie	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dark Su	urface (S9) (LRF	R K, L)
Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (under the present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       none         Depth (inches):       Yes       No	Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       none         Depth (inches):       Hydric Soil Present?       Yes       No       X	Deplete	d Below Dark Surfac	e (A11)	Loamy Gleyed	Matrix (	(F2)		Iron-Mangar	ese Masses (F1	2) ( <b>LRR K, L, R</b> )
Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       none         Depth (inches):       Yes       No	Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       none         Depth (inches):       Yes       No         X         Remarks:	Thick D	ark Surface (A12)		Depleted Matri	ix (F3)			Piedmont Fle	podplain Soils (F	19) ( <b>MLRA 149B</b>
Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer (if observed):         Type:       none       Hydric Soil Present?       Yes No X	Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Restrictive Layer (if observed):         Type:       none       No         Depth (inches):       Yes       No         Remarks:       Yes	Sandy M	Mucky Mineral (S1)		Redox Dark Su	urface (F	=6)		Mesic Spodi	c (TA6) ( <b>MLRA</b>	144A, 145, 149B)
Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       none         Depth (inches):       Hydric Soil Present?       Yes       No       X	Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       none         Depth (inches):       Hydric Soil Present?       Yes       No       X         Remarks:       Image: No       X       Image: No       X	Sandy C	Gleyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parent I	Material (F21)	
Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches): No _X	Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type: Depth (inches): Remarks:	Sandy F	Redox (S5)		Redox Depres	sions (F	8)		Very Shallov	/ Dark Surface (	F22)
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.           Restrictive Layer (if observed):         Type:	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.           Restrictive Layer (if observed):				Marl (F10) (LR	R K, L)			Other (Expla	in in Remarks)	
Restrictive Layer (if observed):	Restrictive Layer (if observed):         No           Type:         none           Depth (inches):         Hydric Soil Present?         Yes         No         X           Remarks:         Kemarks:         Kema	Dark Su	ırface (S7)								
Restrictive Layer (if observed):	Restrictive Layer (if observed):         No           Type:         none           Depth (inches):         Hydric Soil Present?         Yes         No         X           Remarks:         Kemarks:         Kema	<sup>3</sup> Indicatora d	of hydrophytic ycanto	tion and w	otland hydrology m	uet he n	rocont u	aloon diat	urbod or problematic		
Type:         none           Depth (inches):	Type:     none       Depth (inches):     Hydric Soil Present?       Remarks:     Yes				elianu nyurology m	ust be p	ieseni, u	liess uisi			
	Remarks:		2 ( )								
	Remarks:	Depth (i	nches):						Hydric Soil Present?	Yes	No_X_
Remarks:		Remarks:									
	This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils,		rm is revised from No	orthcentral	and Northeast Reg	ional Su	Ipplemen	t Version	2.0 to include the NRCS F	ield Indicators o	of Hydric Soils,
Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)											



Upland CQ at flag CQ-3 - View facing east.



Upland CQ-3 - Soils

Phase 2

## SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

Project/Site: CHPE	City/County: New Scotland/ Albany Sampling Date: 11/11/21					
Applicant/Owner: TDI	State: NY Sampling Point: CP-8 wet					
Investigator(s): N. Frazer, C. Einstein	Section, Township, Range:					
Landform (hillside, terrace, etc.): flat Local r	relief (concave, convex, none): none Slope %: 0					
Subregion (LRR or MLRA): LRR R Lat: 42-36-41N	Long: <u>73-54-04W</u> Datum: <u>WGS 84</u>					
Soil Map Unit Name: Rhinebeck silty clay locam (RhA)	NWI classification: PEM					
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes x No (If no, explain in Remarks.)					
Are Vegetation, Soil, or Hydrologysignificantly disturt	bed? Are "Normal Circumstances" present? Yes x No					
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area					
Hydric Soil Present? Yes X No	within a Wetland? Yes X No					
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures here or in a separate report.) Cattail marsh at the data point. This wetland also has areas dominated by c	common reed and PSS areas dominated by grey dogwood.					

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Cracks (B6)		
X Surface Water (A1)	Water-Stained Leaves (B9)		Drainage Patterns (B10)		
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)		
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)		Crayfish Burrows (C8)			
Sediment Deposits (B2)	ots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	(C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7	Other (Explain in Remarks)		Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B	8)		X FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present? Yes x	No Depth (inches): 0.5				
Water Table Present? Yes x	No Depth (inches): 0				
Saturation Present? Yes x	No Depth (inches): 0	Wetland	Hydrology Present? Yes X No		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
Describe Recorded Data (stream gauge, mo Remarks:	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		
	nitoring well, aerial photos, previous inspe	ctions), if a	vailable:		

Sampling Point: CP-8 wet

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
3 4				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
7				Prevalence Index worksheet:
	:	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 93 x 1 = 93
1. Cornus racemosa	12	Yes	FAC	FACW species 10 x 2 = 20
2. Lonicera morrowii	5	Yes	FACU	FAC species x 3 = 81
3				FACU species5 x 4 =20
4.				UPL species 0 x 5 = 0
5.				Column Totals: 135 (A) 214 (B)
6.				Prevalence Index = B/A = 1.59
7.				Hydrophytic Vegetation Indicators:
	17	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Typha latifolia	75	Yes	OBL	X 3 - Prevalence Index is $\leq 3.0^{1}$
2. Onoclea sensibilis	10	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
3. Equisetum arvense		<u>No</u>	FAC	
4. Eutrochium maculatum		No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Lycopus americanus	2	No	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Lythrum salicaria	8	No	OBL	be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	118	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum         (Plot size: 30')           1.				Woody vines – All woody vines greater than 3.28 ft in height.
2				
3				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			1
	,			

Profile Desc	ription: (Describe f	to the de	pth needed to docu	ument ti	he indica	ator or co	onfirm the absence o	f indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 2/1	100					Muck	
6-10	10YR 2/1	100					Loamy/Clayey	
10-20	10YR 4/1	95	10YR 4/6	5	С		Loamy/Clayey	Prominent redox concentrations
							·	
1								
	oncentration, D=Depl	etion, RN	I=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.
Hydric Soil			Daharahua Bala		aa (S9) (I			or Problematic Hydric Soils <sup>3</sup> :
	Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B)							
Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) This Dark Surface (S9) (LPR P, MLPA 149B) 5 cm Mucky Post or Post (S3) (LPR K, L, P)								
Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)								
Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)								
X Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L, R								
						nt Floodplain Soils (F19) (MLRA 149B)		
Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 1								
Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (F21)								
Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (F22)					allow Dark Surface (F22)			
Stripped Matrix (S6) Marl (F10) (LRR K, L) Other (Explain in Remarks)				xplain in Remarks)				
Dark Su	face (S7)							
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.								
		ion and v	vetland hydrology mu	ust be pi	resent, ur	nless dist	urbed or problematic.	
	_ayer (if observed):							
Type:	non	е						
Depth (ir	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								
								CS Field Indicators of Hydric Soils,
version 7.0,	2015 Errata. (http://w	/ww.nrcs.	usda.gov/internet/Fa	SE_DU	JUMENT	S/nrcs14	2p2_051293.docx)	